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## AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings or claims in the application.

Claims 1-21 (Canceled)

- 22. (Currently amended) A method of treating[[,]] or managing or preventing obstructive lung disease comprising administering to a patient a pharmaceutical composition comprising an effective amount of a medicament selected from the group consisting of:
  - (a) heat killed whole cell Mycobacterium w,
  - (b) sonicated Mycobacterium w,
  - (c) a solvent extract of *Mycobacterium w*, wherein the solvent is selected from the group consisting of chloroform, ethanol, methanol, and acetone,
  - (d) an enzymatic extraction of Mycobacterium w, wherein the enzyme is liticase, and
  - (e) admixtures thereof.
- 23. (Previously Presented) The method of claim 22 or 48, wherein the method is for treating, managing or preventing asthma.
- 24. (Previously presented) The method of claim 23, wherein the method is for delaying attacks of asthma.
- 25. (Previously Presented) The method of claim 23, wherein the method is for reducing the requirement of drugs used to improve lung function during the management of asthma.
- 26. (Previously Presented) The method of claim 23, wherein the method is for improving lung function in the presence or absence of other drugs.

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- 27. (Previously Presented) The method of claim 23, wherein the asthma is bronchial asthma.
- 28. (Previously Presented) The method of claim 22, wherein the pharmaceutical composition comprises an admixture of heat killed whole cell *Mycobacterium w* and sonicated *Mycobacterium w*.
- 29. (Previously Presented) The method of claim 22, wherein the pharmaceutical composition comprises sonicated *Mycobacterium w*.
  - 30. (Canceled)
  - 31. (Canceled)
- 32. (Previously Presented) The method of claim 22, wherein the pharmaceutical composition comprises a solvent extract of *Mycobacterium w* wherein the solvent is selected from the group consisting of chloroform, ethanol, methanol and acetone.
  - 33-35. (Canceled)
- 36. (Previously Presented) The method of claim 22 or 48, wherein the pharmaceutical composition further comprises an adjuvant.
- 37. (Previously presented) The method of claim 36, wherein the adjuvant is selected from the group consisting of mineral oil, mineral oil and surfactant, Ribi adjuvant, Titer-max, syntax adjuvant formulation, aluminum salt adjuvant, nitrocellulose adsorbed antigen, immune stimulating complexes, Gebru adjuvant, super carrier, elvax 40w, L-tyrosine, monatanide (manide-oleate compound), Adju prime, Squalene, Sodium phthalyl lipopoly saccharide, calcium phosphate, saponin, melonoma antigen and muramyl dipeptide (MDP).
- 38. (Previously Presented) The method of claim 22 or 48, wherein the pharmaceutical composition further comprises a surfactant.

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- 39. (Previously Presented) The method of claim 38, wherein the surfactant is polyoxyethylene sorbitan monooleate (Tween 80) or Titon X100.
- 40. (Previously Presented) The method of claim 38, wherein the surfactant is present in the pharmaceutical composition in a concentration of up to 0.4%.
- 41. (Previously Presented) The method of claim 38, wherein the surfactant is present in the pharmaceutical composition in a concentration of up to 0.1%.
- 42. (Previously Presented) The method of claim 22 or 48, wherein the pharmaceutical composition further comprises a preservative.
- 43. (Previously Presented) The method of claim 42, wherein the preservative is Thiomerosal and is present in a concentration of 0.01% w/v.
  - 44. (Canceled)
- 45. (Previously Presented) The method of claim 22, wherein the pharmaceutical composition is in a unit dosage form comprising at least  $10^5$  Mycobacterium w as:
  - (a) 10<sup>5</sup> heat killed whole cell *Mycobacterium w*
  - (b) 10<sup>5</sup> sonicated Mycobacterium w,
  - (c) a solvent extract of  $10^5$  Mycobacterium w wherein the solvent is selected from chloroform, ethanol, methanol and acetone, or
  - (d) an enzymatic extraction of  $10^5$  Mycobacterium w wherein the enzyme is liticase.
- 46. (Previously Presented) The method of claim 22, wherein the pharmaceutical composition is in a unit dosage form comprising at least 10<sup>7</sup> Mycobacterium w as:
  - (a) 10<sup>7</sup> heat killed whole cell *Mycobacterium w*,
  - (b) 10<sup>7</sup> sonicated Mycobacterium w,

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- (c) a solvent extract of  $10^7$  Mycobacterium w, wherein the solvent is selected from the group consisting of chloroform, ethanol, methanol, and acetone, or
- (d) an enzymatic extraction of  $10^7$  Mycobacterium w wherein the enzyme is liticase.
- 47. (Previously Presented) The method of claim 22, wherein the pharmaceutical composition is in a unit dosage form comprising between  $10^8$  and  $10^9$ Mycobacterium w as:
  - (a) between  $10^8$  and  $10^9$  heat killed whole *Mycobacterium* w,
  - (b) between 10<sup>8</sup> and 10<sup>9</sup> sonicated Mycobacterium w,
  - (c) a solvent extract of between  $10^8$  and  $10^9$  Mycobacterium w wherein the solvent is selected from the group consisting of chloroform, ethanol, methanol and, acetone, or
  - (d) an enzymatic extraction of between  $10^8$  and  $10^9$  Mycobacterium w wherein the enzyme is liticase.
- 48. (Currently amended) A method of treating[[,]] or managing or-preventing obstructive lung disease comprising administering to a patient a pharmaceutical composition comprising an effective amount of heat killed whole cell *Mycobacterium w*.

49-54. (Canceled)